| | | | | | | | | 04/89 | 11,096 | OFGS File | No. P/120 | 5-204p | |
|---------------------------------------|----------|-----------------|----------------|----------|----------|----------|---------------------|---------------------|--------------------------------|---------------------|----------------|----------------------------|---------------------|
| APPL) | | | ART eets if | | | N | | | SHIMAZAKI | | | Ď, | 1096 |
| (0. | | | | | | | Filing Date 5 31 01 | | | Group Art Unit 2686 | |)) | 18/60 |
| | | | | | | | | | DOCUMENTS | | | 11 | |
| Examiner Initial | | Document Number | | | | | | Date Name | | | Sub- class | Filin If App | g Date propriate |
| | | | | | | | | | | | | | |
| | L_ | | | <u> </u> | <u> </u> | <u> </u> | | | | | | | |
| | <u> </u> | | ļ. <u>.</u> | | | <u> </u> | | ļ | | | | | |
| | | <u> </u> | ļ | | <u> </u> | <u> </u> | ļ | | | _ | | | |
| | | | | | | | | | · | | | | |
| | <u> </u> | L | <u> </u> | l | <u> </u> | L | | | | | | | _ |
| | <u>,</u> | | | | | <u> </u> | ORE | IGN PATEN | NT DOCUMENTS | 1 | | <u>.</u> | |
| | | | Docur | ment N | lumbe | r | | Date | Country | Class | Sub- class | Tran: Yes | slation No |
| IQ | 1 | 1- | 3 | 0 | 2 | 2 | 6 | 02/02/99 | Japan | HOYM | | X Abs- tract only | 140 |
| IQ | 1 | 1- | 6 | 8 | 8 | 9 | 6 | 03/09/99 | Japan | ночи | l(oz | X Abs- tract only | |
| ΣQ | 6- | 1 | 9 | 5 , | 1 | 5 | 1 | 07/15/94 | ` Japan | 606F | lle | X Abs- tract only | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | _ | | | |
| ····· | | | 0 | THE | R DO | CUI | MEN | TS (Including | Author, Title, Date, Pertine | nt Pages, Et | c.) | | |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | |
| | | | | · | | | | | | | | | |
| · | | | | | | | | | | | | | |
| | | | | | | | | | | | | | • |
| | | | | | | | | | | | | | |
| | | | | | | 0.4 | | | _ | | | | |
| | Am | 1 | Pia | P | 10 I | | | | TO 9/6/05 | | | | |
| Examiner | : Initis | al if cit | ation co | nsidere | d. whet | her or r | | | ance with MPEP § 609; Draw lin | e through cits | tion if not in | conformer | re and |
| not consider | ed Inc | lude co | | hie for | ,i.h e | AVI CON | | ation to the applic | ant | - anoogn cita | | | 4110 |

| Under | the Paperwork Reduction Ac | a 100 | App 1 1 Total | U. S. Patent and Traden | PTO/SB/08A (10-01) roved for use through 10/31/2002.OMB 0651-0031 nark Office: U.S. DEPARTMENT OF COMMERCE nation unless it contains a valid OMB control number. | |
|-------|-----------------------------|-------------|---------------|-------------------------|---|------|
| Sul | ostitute for form 1449A/PTO | | TRABEM | | Complete if Known | 1 |
| | | | | Application Number | 09/871,096 | |
| 11 | VFORMATION | N DI | SCLOSURE | Filing Date | May 31, 2001 | |
| 5 | STATEMENT I | 3Y <i>i</i> | APPLICANT | First Named Inventor | Mamoru Shimazaki | |
| | | | | Art Unit | 2686 | |
| | (use as many sh | eets es | necessary) | Examiner Name | Not Yet Assigned PEREZ- GUTZE | acer |
| Sheet | 1 | af | 1 | Attorney Docket Number | G0126.204/P204 | |

| | | | U.S. PATENT DOCUMENTS | | | | | | | | | | |
|-------|---------|-----------------------|-----------------------|---|----------------|--------------------------------|--|--|----|--|--|--|--|
| | | | | Document Number | Publication Da | No No | me of Patentee or Applicant | Pages, Columns, Lines, Where Relevant | | | | | |
| CLASS | 24VTA32 | Examiner Initials* | Cite No.1 | Number-Kind Code ² (# known) | MIM-DD-YYY | | of Cited Document | Passages or Relevant Figures Appear | | | | | |
| 722 J | 566 | 主仪 | Α | 5,896,575 | 04-20-199 | 9 Meterela | the Higginbothem et al. | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | | | | | | 03 | | | | | | |
| | | | | | FOREIG | N PATENT | DOCUMENTS | | | | | | |
| | | Examiner Initials* | Cite No.1 | Foreign Patent Docum Country Code ³ -Number ⁴ -Kind Co | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T° | | | | |
| 606F | 1/16 | 7Q | В | ₩ 2 -00/59179 Ж | WIPO | 10-05-2000 | Sony Electronics Inc. | rigues Appea | 十 | | | | |
| 4900 | 1/14 | 10 | C | 387-6-195151 | JUPAN 1 | 07-15-1994 | | | ┪ᢏ | | | | |

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

| | | OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | |
|----------------------|-------------|--|----------------|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| IQ | D | European Search Report dated February 13, 2002 | \top |

| | | Λ | | | |
|-----------------------|---------|---|--------------------|-------------|-----|
| Examiner Signature | Smed 1. | | Date Considered | 11/08 | 143 |
| | | | 1 0000000 | | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Applicant's unique citation designation number (optional). 'Applicant is to place a check mark here if English language Translation is attached.

RECEIVED

APR 1 6 2002

Technology Center 2600

27013 v1; K%D01LDOC 27013 v1; K%D01LDOC

PTO/SB/08A (10-01) Approved for use through 10/31/2002.OMB 0651-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete If Known Substitute for form 1449A/PTO Application Number 09/871,096 INFORMATION DISCLOSURE Filing Date May 31, 2001 STATEMENT BY APPLICANT First Named Inventor Mamoru Shimazaki 2686 Art Unit Not Yet Assigned Perez Currel Care 1860 Inchnology Center 2800 (use as many sheets as necessary) Examiner Name Sheet 1 Attorney Docket Number G0126.204/P204 1

| | • | | | | U. | S. PATENT DO | CUMENTS | | \Box |
|-------|---------|-----------------------|--------------|--|--------------------------------|------------------|---|--|--------|
| | | Examiner Initials* | Cite No.1 | Document Number Number-Kind Code ² (# len | Publicatio | | me of Patentae or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | |
| | | | | | FOR | IGN PATENT I | DOCUMENTS | | \neg |
| | | Examiner | Cite | Foreign Patent | Document | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where Relevant | П |
| CLASS | SUBCLAS | | No.1 | Country Code ³ -Number ⁴ - | and Code ^s (if know | n) MIM-DID-YYYY | Applicant of Cited Document | Passages or Relevant Figures Appear | Τ° |
| MYOH | 1/02 | 10 | BA | X2-4-49746 | Jayan | 02-19-1992 | | | \Box |
| WYOH | 1/02 | 12 | BB | ¥€-2001-257754 | Japan | 09-21-2001 | | | X |

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³
Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁸ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁸ Applicant is to place a check mark here if English language Translation is attached.

| | | OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | |
|----------------------|-------------|--|------------------|
| Examiner Initials | Cite No. | include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² , |
| Id | CA | Japanese Office Action issued October 22, 2002 (w/ English translation of relevant portion) | |

| l Examiner | A , 1 | Date 1.1.1. |
|---------------|--|--------------------|
| | M | |
| l Signature I | The same of the sa | Considered "/03/03 |
| G.13.1-0.10 | | Considered |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{&#}x27;Applicant's unique citation designation number (optional). *Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002 OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE er the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of

| | Complete if Known |
|----------------------|------------------------------|
| Application Number | 09/871,096 |
| Filing Date | May 31, 2001 |
| First Named Inventor | Mamoru Shimazaki |
| Art Unit | 2686 |
| Examiner Name | Not Yet Assigned PEREZ-GUTZE |

| Examiner Name | Not Yet Assigned PEREZ-GUTTERREZ |
|------------------------|----------------------------------|
| Attorney Docket Number | G0126.204/P204 |
| | |

| | | | | | U.S | PATENT DO | CUMENTS | | |
|------|---------|-----------------------|--------------------------|---|------------------------------|---------------------|-----------------------------|--|----|
| | | 5 | <u> </u> | Document Number | Publication I | Date No | me of Patentee or Applicant | Pages, Columns, Lines, Where Relevant | |
| | SUBLLAS | Examiner Initials* | Cite No. ¹ | Number-Kind Code ² (# known) | | 110 | of Cited Document | Passages or Relevant Figures Appear | |
| 458 | 566 | 19 | AA | US 5,584,054 | 12-10-19 | 96 | Tyneski et al. | | |
| 1 | | | L | | FORE | GN PATENT | DOCUMENTS | | |
| 1 | 1 | Examiner | Citte | Foreign Patent Doc | ument | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where Relevant | |
| | l | Initials* | No. | Country Code ³ -Number*-Kind | Code ⁵ (if known) | MM-DD-YYYY | Applicant of Cited Document | Passages or Relevant Figures Appear | 70 |
| HOYQ | 7/32 | IU | BA | CX 1247675 CH | ZN4 | 03-15-2000 | , | | |
| 4 | | | BB | | | | | | X |

1:

¹Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gog or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

| | | OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS | |
|----------------------|--------------|--|----------------|
| Examiner Initials | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| IQ | CA | Chinese Office Action issued March 28, 2003 (w/ English translation of relevant portion) | |

| Examiner | AIA | Date | 41.060 |
|-----------|--------------|------------|----------|
| Signature | Street frame | Considered | 11/03/01 |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw tine through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

JUN 1 8 2003

Technology Center 2600

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002.CMB 0851-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE and to respond to a collection of information unless it contains a valid OMB control number.

| Substitute for form 1448APTO | | | | Complete if Known | | |
|-----------------------------------|-----------|------|------------|------------------------|-------------------------------|------|
| | | | | Application Number | 09/871,096 | |
| 11 | NFORMATIO | N DI | SCLOSURE | Filing Date | May 31, 2001 | |
| STATEMENT BY APPLICANT | | | | First Named Inventor | Mamoru Shimazaki | |
| | | | | Art Unit | 2686 |] |
| (use as many sheets as necessary) | | | necessary) | Examiner Name | Not Yot Assigned Peris - Gutt | ELLE |
| Sheet | 1 | of | 1 | Attorney Docket Number | G0126.204/P204 | |

| U.S. PATENT DOCUMENTS | | | | | | | | |
|-----------------------|--------------|--|---|---|--|--|--|--|
| Examiner Initials* | Cite No.1 | Document Number Number-Kind Code ² (# known) | Name of Patentee or Applicant of Cited Document | Pages, Columns, Unes, Where Relevent Passages or Relevant Figures Appear | | | | |
| | | | | | | | | |

| | | FOREIGN PATENT DOCUMENTS | | | | | | |
|------|--------|--------------------------|-------------|---|--------------------------------|--|--|---|
| LASS | macras | Examiner Initiats* ·· | Cite No. | Foreign Petent Document Country Codo ³ -Number Hand Code ⁴ (if Innown) | Publication Date MM-DD-YYYY | Name of Palentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | 7 |
| | 3/147 | | BA | 2349784 K United Known | 11-08-2000 | Samsung Electronics Co. Ltd. | | |
| | | | | | | | | X |

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3), ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document, ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁸ Applicant is to place a check mark here if English language Translation is attached.

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | | | | |
|---|--------------|--|----|--|--|--|
| Examiner Initials | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T2 | | | |
| | | | | | | |

| | | |
|--------------------|----------------|----------|
| Examiner Signature | Date | 11/15/04 |
| Signature | Considered | |
| | | |

^{*}EXAMINER: tritial if reference considered, whether or not cliation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.